GUTENFELS

S/S Gutenfels

Longitudinal Section

S/S N. 254/255

Flensburger Schiffsb. Ges.
Ham. letter 21/12 04

Ham. Rept. 8877

LLOYD'S REGISTER OF SHIPPING
RECEIVED
22 JAN 1905
LONDON E.C.

RETAIN

Nb91-0204

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Lloyd's Register Foundation

LONGITUDINAL PLAN
S.S. No 254 & 5.

SCALE 1/8 = 1 FOOT.

23-12-04
24-2-05

Plans of Tweendk Tanks to be specially submitted.

Gulley
Bridgedeck
Spardeck
Maindeck
Hatch 25'·0" × 14'·0"
Hatch 29'·2" × 16'·0"
Steeldeck 9/20 - 7/20
Sheathing 3" Teak
Stringer
Ditto
Water
Air Space
C.L. watertight
NOTE:- Rivets through shell + frames in Twdk Tanks + Peaks 6 dia apart, also through Deckpltg + Beams in Twdk Tanks
Rivets through shell + frames in Peaks 6 dia
NOTE:- Bottom forwd strengthened according to rule.
Stringer in Bridge 6½ × 13/20
Steeldeck ditto 9/20
Stringer 6½ × 14/20 - 49 × 8/20
Frames cut in way of Tanks + connected by large knees
Engines
Boilers
Beams in way of Tanks 2nd rivet
Twdk W.B. Tank
Stokehold Bunkers
Middle line Pillars
Strong welded angle around coaming
Sec 15 par 14

LADEPLAN

S.S. „GUTENFELS".

ERBAUT VON DER FLENSBURGER SCHIFFSBAU GESELLSCHAFT.

MASSSTAB = 1:200.

GRÖSSTE LÄNGE – 438-10' – 133.75 M.
LÄNGE ZWISCH' PERP. – 423-4' – 129.03 M.
GRÖSSTE · BREITE – 55-2' – 16.81 M.
HÖHE AN DER SEITE – 31-3' – 9.525 M.
2600 I. H. P.

INHALT DER LADERÄUME:

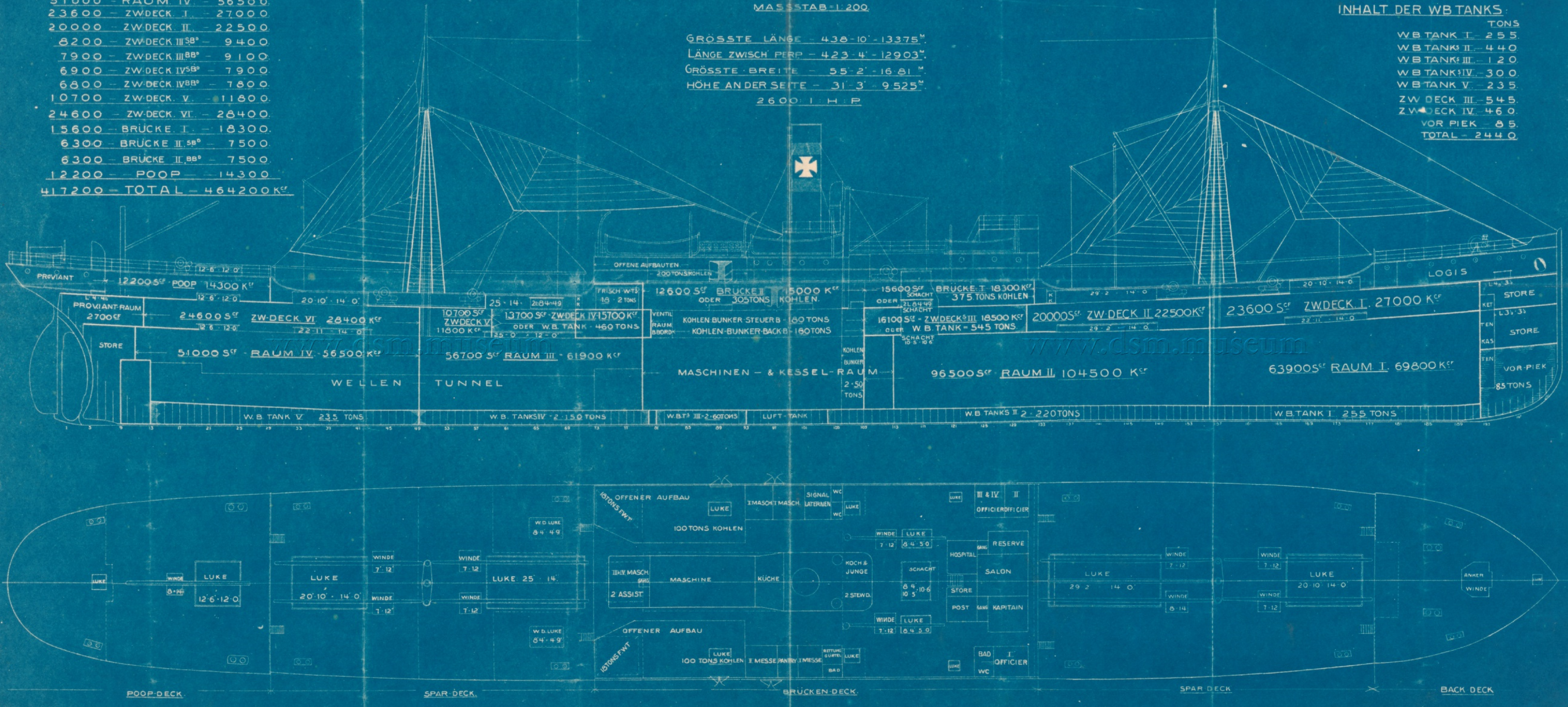
STÜCKGUT CUBIC-FEET		KORNLADUNG CUBIC-FEET
63900	RAUM. I.	69800.
96500	RAUM. II.	104500.
56700	RAUM. III.	61900.
51000	RAUM. IV.	56500.
23600	ZW-DECK. I.	27000.
20000	ZW-DECK. II.	22500.
8200	ZW-DECK. III SBD	9400.
7900	ZW-DECK. III BBD	9100.
6900	ZW-DECK. IV SBD	7900.
6800	ZW-DECK. IV BBD	7800.
10700	ZW-DECK. V.	11800.
24600	ZW-DECK. VI.	28400.
15600	BRÜCKE. I.	18300.
6300	BRÜCKE II. SBD	7500.
6300	BRÜCKE II. BBD	7500.
12200	POOP	14300.
417200	TOTAL	464200 KCF.

INHALT DER BUNKER:

	TONS
KESSEL RAUM BUNKER	100.
ZWISCHEN DECK BUNKER	340.
BRÜCKE I - BUNKER	375.
BRÜCKE II - BUNKER	305.
OFFENE AUFBAUTEN	200.
TOTAL	1320.

INHALT DER WB TANKS:

	TONS
W B TANK I.	255.
W B TANKS II.	440.
W B TANKS III.	120.
W B TANKS IV.	300.
W B TANK V.	235.
ZW DECK III.	545.
ZW DECK IV.	460.
VOR PIEK	85.
TOTAL	2440.


PROVIANT
12200 SCF POOP 14300 KCF
12-6' · 12-0'
L 4 · 4½
PROVIANT-RAUM 2700 CF
24600 SCF ZW-DECK VI 28400 KCF
22-11 · 14-0
STORE
51000 SCF RAUM IV 56500 KCF
WELLEN TUNNEL
W. B. TANK V 235 TONS
20-10' · 14-0'
25 · 14 · 2L 8·4·49
10700 SCF ZW-DECK V 11800 KCF
13700 SCF ZW-DECK IV 15700 KCF ODER W. B. TANK 460 TONS
25-0' × 12-0'
56700 SCF RAUM III 61900 KCF
W. B. TANKS IV 2 · 150 TONS
OFFENE AUFBAUTEN 200 TONS KOHLEN
FRISCH-W.T'S 18 · 2 TONS
12600 SCF BRÜCKE II 15000 KCF ODER 305 TONS KOHLEN.
VENTIL RAUM BBORD
KOHLEN-BUNKER-STEUER B. - 180 TONS
KOHLEN-BUNKER-BACK B. - 160 TONS
MASCHINEN- & KESSEL-RAUM
KOHLEN BUNKER 2 · 50 TONS
W.B.T's III - 2 · 60 TONS
LUFT-TANK
15600 SCF BRÜCKE I 18300 KCF ODER 375 TONS KOHLEN
SCHACHT 2L 8·4·49
16100 SCF - ZW-DECK'S III 18500 KCF ODER W. B. TANK - 545 TONS.
SCHACHT 10·5 · 10·6
96500 SCF RAUM II 104500 KCF
W.B TANKS II 2 · 220 TONS
29-2 · 14-0
20000 SCF ZW-DECK II 22500 KCF
23600 SCF ZW.DECK I. 27000 KCF
22-11 · 14-0
20-10 · 14-0
LOGIS
L 4½ · 3½
STORE
KETTEN KASTEN
L 3½ · 3½
STORE
VOR-PIEK 85 TONS
63900 SCF RAUM I. 69800 KCF
W.B.TANK I 255 TONS
LUKE
WINDE 8 × 14
LUKE 12·6 · 12·0
LUKE 20·10' · 14·0'
WINDE 7' · 12'
WINDE 7 · 12
LUKE 25' · 14'
W.D. LUKE 8·4' · 4·9'
18 TONS F.W.T.
OFFENER AUFBAU
LUKE
100 TONS KOHLEN
III & IV MASCH. GANG 2 ASSIST
MASCHINE
KÜCHE
I MASCH. I MASCH.
SIGNAL LATERNEN
WC
II MESSE PANTRY I MESSE
RETTUNG GÜRTEL
BAD
KOCH & JUNGE
2 STEWD.
SCHACHT 8·4 · 10·6 10·5
LUKE 8·4·5·0
HOSPITAL
GANG
RESERVE
SALON
STORE
POST
KAPITAIN
III & IV OFFICIER
II OFFICIER
I OFFICIER
LUKE 29·2 · 14·0
WINDE 8 · 14
LUKE 20·10 · 14·0
ANKER WINDE
POOP-DECK.
SPAR-DECK.
BRÜCKEN-DECK.
SPAR DECK
BACK DECK

S/S Nos 254

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Deutsches Schiffahrtsmuseum, Bremerhaven
Signatur: VIII 1 II 093
Titel: GUTENFELS: Ladeplan

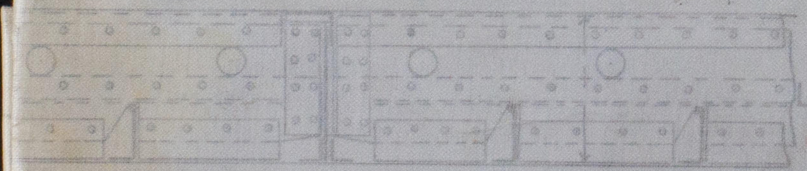
S/S Gutenfels

S. S. No 254/55

Flensburger Schiffsbau Ges.

Corrected Midshipsection

Ham. Rept No 8877



LLOYD'S REGISTER OF SHIPPING
RECEIVED
22 MAR 1906
LONDON

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W691-0205

S.S. Nos 254 & 255

FLENSBURGER SCHIFFSBAU

Corrected Section

SCALE 1/2" = 1 FOOT

Dimensions	Length	421 Ft 3"
" " " "	Breadth	54" 11
" " " "	Depth moulded Main Dk	23" 1
" " " "	" " " Spar "	31" 3
" " " "	" " " per Rules.	24" 6

Camber 14"
Plate at Large Hatchways
6 × 3½ × 9/20
10 plate 9/20
4½ × 3½ × 11/20
53. 11
10 × 10/20
6 × 3½ × 10/20
12"
Flanged plate at Large Hatchways
plate 10/20
angles 5 × 3½ × 14/20
4½ × 3 × 4/20
4/20
10 × 3½ × 12/20 ⊏ Spaced 30
8 to 7/20
18"
20"
Spaced as per profile
45
5½ × 5½ × 13/20
9½
12 to 11/20
23
23
20
12-11/20
Gussets Machinery Space.
Double Strakes 48 × 15/20 to 14/20
Scarphed
14-13/20 Butts Quad lapped.
B & C Strakes forward 12/20
12/20 to 10/20 Butts Quad
4/20
5/20
2"
46 × 15-12/20
doubled from under Bridge to ¾ L
double straps Treble
6"
15/20 to 10/20
Quad lapped
6
13-10/20
Quad lapped
5¼
13-10/20
Quad lapped
5¼
13-10/20
Quad lapped
5¼
13-10/20
Quad lapped
5½ × 5½ × 10/20
5½ × 3½ × 9/20
4 × 4 × 10/20
12/20
Treble lapped
11/20
Treble lapped
13/20
16/20
15/20
In Holds

Class ✠ 100 A 1 Spar deck.

½ Breadth	27.45	
Depth	24.50	
Half Girth	48.35	
	100.30	1st Numeral
	421.25	
	42250.	2nd Numeral

L/D 17.2 to Main dk 12.99 to Spar dk L/B = 7.67

	Forecastle 52.0	Bridge 118.9	Poop 58.4
Beams Spaced 50"	⌶ 9 × 5¼ × 11/20	⌶ 9 × 5¼ × 11/20	⌶ 8½ × 5¼ × 10/20
Hatch End Beams			⊏ 11 × 3½ × 14/20
Beam Knees	2¾ depths	2¾ depths	2¾ depths
Stringer plate	37 × 7/20	47 × 10/20	37 × 7/20
Stringer Angles	3½ × 3½ × 8/20	4 × 4 × 9/20	3½ × 3½ × 8/20
Steel, deck or Ties		6/20	
Wood deck	Teak 5 × 3	Teak 5 × 3	Teak 5 × 3
Pillars	2¾ Dia	2¾ Dia	2¾ Dia

Riveting Landing edges of Bridge double, Poop & Forecastle single
" Butts Bridge stringer Quad. Sides Treble, Forecastle & Poop Butts double } lapped
" " " Sides " "

Frames Spaced 25"

⊏ 8 × 3½ × 11 to 10/20 · Frame bottoms 3½ × 3½ × 10-9/20
all to Spar. Bridge Poop & Forecastle decks
Bulkhead Frames 3½ × 3½ × 10-9/20 Plating 8 to 7/20
Reverse angles on Tank floors 3½ × 3½ × 9/20

Forgings

Stem. 11½ × 3⅜ Stern frame 11½ × 7½. Flat Keel bar 10 × 2½
Rudder 10½ dia as per plan

Clear of Bridge

Beams ⊏ 8 × 3½ × 11/20. Ends 7 × 3 × 9/20
" Hatch Ends ⌶ 8 × 3½ × 12/20
4½ × 3 × 12/20
Stringer 65 × 14/20 to 49 × 9/20
" angles 5 × 5 × 11- to 10/20
Gutter " 3 × 2½ × 8/20
Steel dk 9/20 to 8/20
Teak dk 5" × 3"

Under Bridge & Poop

⊏ 9 × 3½ × 11/20 to 7½ × 3 × 10/20 on every frame
⌶ 9 × 3½ × 12/20 angle 4½ × 3½ × 11/20
Knees 2¾ Depths
Under Bridge Stringer plate 65 × 13/20
4 × 4 × 9/20 to 8/20 at Erections
9 to 8/20
9 to 8/20

(Butts of Stringer Quadruple lapped ½ length. Deck double ½ L.

Beams	on every frame ⊏ 9 × 3½ × 11/20 Ends 7½ × 3 × 10/20
Hatch ends Webs	⌶ 4½ × 3½ × 11/20 Beam Knees 3 Depths
Stringer plate	65 × 11/20 to 49 × 9/20 Angles 4 × 4 × 9 to 8/20
Steel deck	8/20 to 7/20
Riveting	. Butts of Stringer treble lapped Deck double lapped ½ L

⌶ 15 × 12/20

Web frame

Web frames 20 × 11 to 10/20 inner angle 6½ × 4½ × 13 to 12/20. double frames to Outside plating.
" Stringers " " " " " " " " ". Shell angles 6 × 3½ × 9/20
angles connecting stringers with Shell 6 × 3½ × 9/20 with frames 3½ × 3½ × 10/20
Web

Double Bottom

Floor plates 8/20. flanged at Ends 9/20 Boiler space 11/20. angle 3½ × 3½ × 9/20
Intercostal plates " 9/20 outside of machinery space.
Centre girder 45 × 11-9/20 in Boiler space 12/20. Butts treble lapped.
" " Top angles 4 × 4 × 10/20 " " " 12/20 Bottom angles 4½ × 4½ × 12 to 10/20
Margin plate 40 × 10/20 Boiler space 12/20 Butts double lapped.
side girders flanged ends 9/20 angle 3½ × 3½ × 9/20 + 3/20 in Boiler space
Tank top plating middle line strake 45 × 10/20 to 8/20 Boiler space 12/20
" " " Side strakes 9 & 8/20 Ends 8 & 7/20 Engine space 10/20 Boiler 12/20 Butts double

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Plan of Main Boilers for S.S. No 254 & 255

to be built and engined
by
Flensburger Schiffsbau-Ges.
of Flensburg.

No 254 S.S. "Gutenfels"
No 255 S.S. "Stolzenfels"

Ham. Rept No 8877

LLOYD'S REGISTER OF SHIPPING
RECEIVED
22 JAN. 1906
LONDON

KOTKA

RETAIN

M. BERENDT
Engineer Surveyor to Lloyd's Register
of British and Foreign Shipping
HAMBURG

W691-0253

21: 12: 04

	Wasserberührt.		Feuerberührt.
Heizfläche für 3 Kessel	602,76 qm	6488,4 ʘ	516,5 qm.
Rostfläche " 3 "	14,19 "	152,7 ʘ	

Mantel:	36 m/m.
Äußere Laschen:	28 " .
Innere " :	30 " .
Niete (Längs- & Rundnäte:	40 " .

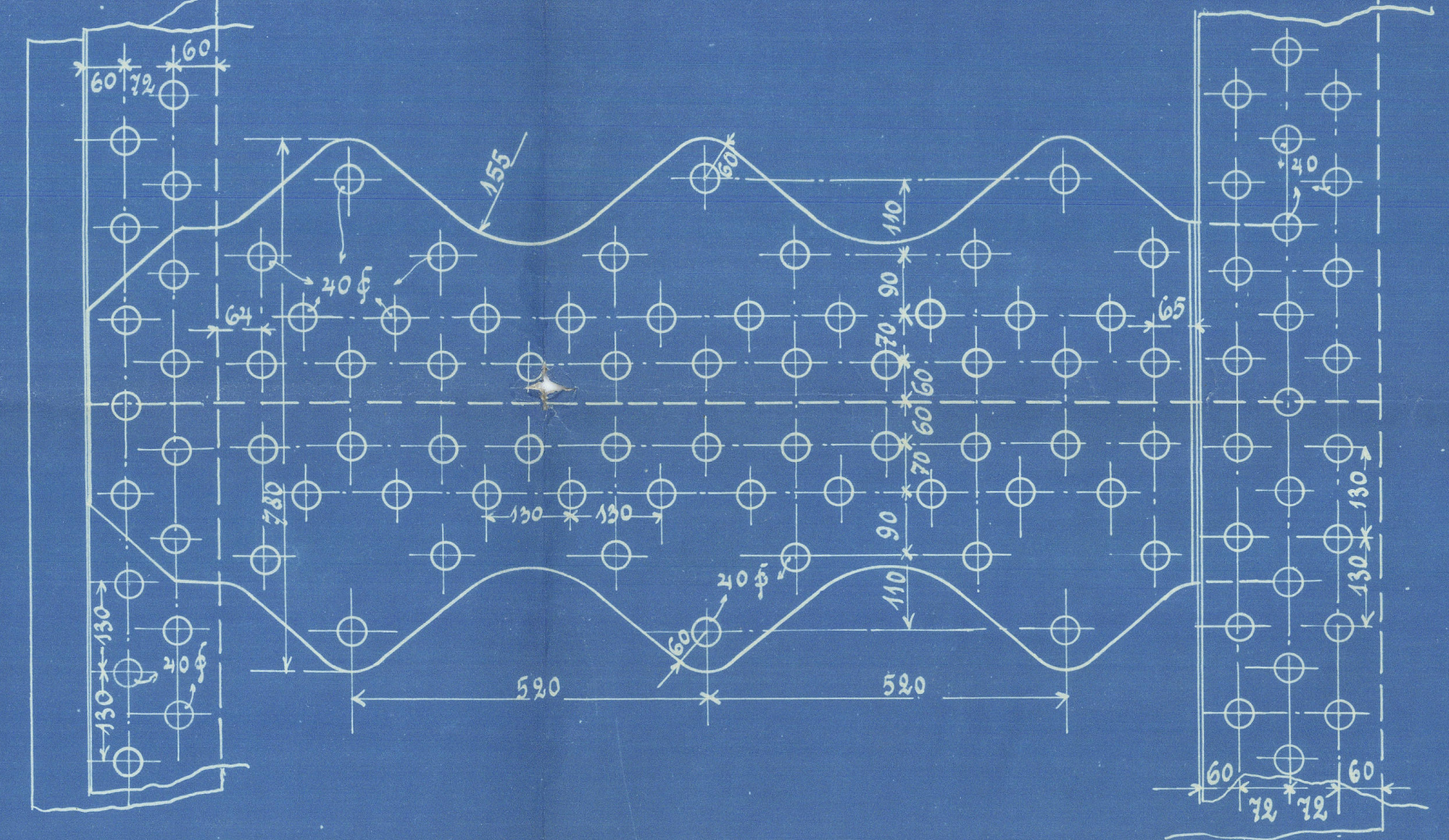
Material: S. M. Stahl. für die Mantelbleche solcher von 44 kg/qmm Minimalfestigkeit.

Festigkeit der Platten: 92,3 %

" " Nieten: 107,5 % (Br. Ld.) 125,4 (Germ. Ld.)

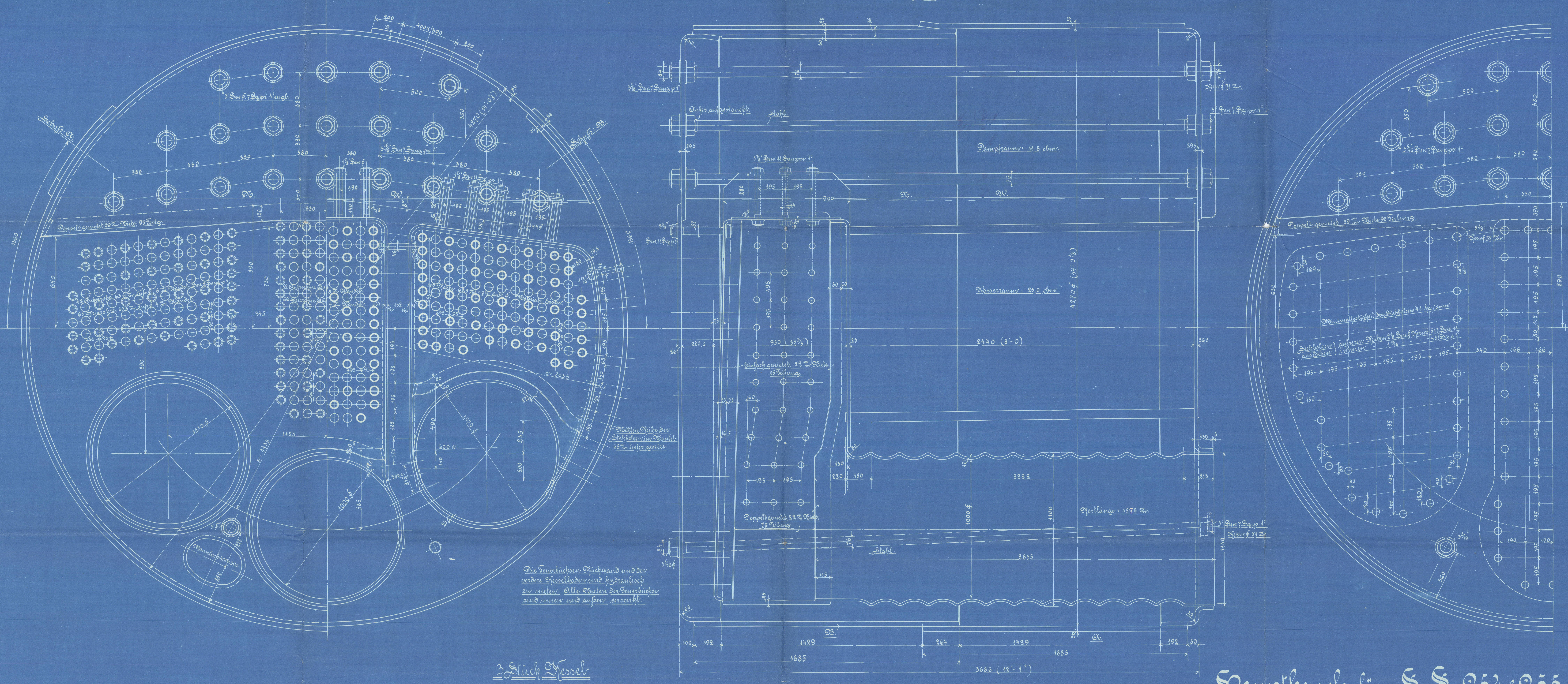
Heizfläche pro Kessel:	Wasserberührt.		Feuerberührt.
3/2 Feuerrohre:	13,02 qm	140,2 ʘ	13,02 qm.
3 Feuerbüchsen:	23,00 "	247,6	23,00 " .
332 Heizrohre:	161,62 "	1739,7	132,87 " .
Vorderwand:	3,28 "	35,3	3,28 " .
Heizfläche total:	200,92 qm	2162,8 ʘ	172,17 qm.
Rostfläche ":	4,73 "	51,0 "	

Dampfdruck .... 15 Atm. = 213 ℔.



Lichter Heizrohrquerschnitt: ... 0,7052 qm.

3/2 Feuerrohrquerschnitt: ..... 1,1781 qm.



Die Feuerbüchsen Rückwand und der vordere Kesselboden sind hydraulisch zu nieten. Alle Nieten der Feuerbüchse sind innen und außen versenkt.

3 Stück Kessel

pro Schiff.

Hauptkessel für S.S. 254 & 255.

M = 1 : 10.

20.12.04

FLENSBURGER SCHIFFBAU-GESELLSCHAFT 15. 12. 1904

No 4023.

R.